



## GUARD

### GSM/GPS alarm with identification access cards and 3D G sensor

**GUARD** is a unique GSM, GPS communication unit which is used for monitoring and vehicle security. It is designed for hidden installation in a vehicle, where it monitors:

- The presence of **authorized identification cards** within range.
- The status of the ignition, type of journey, or other digital inputs.
- **GPS position, direction and speed.**
- On-board voltage.
- Vehicle acceleration on 3 axes.
- **Security sensors** such as vehicle tilt or movement inside the vehicle.

#### Application

The unit is designed for application as a **GSM alarm, for car security, vehicle monitoring** and as an on-line electronic logbook.

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All data is stored in the unit memory and sent to the server for further processing and displayed to users. The unit also supports communication by SMS and calling. These are used to **send an alarm to the mobile phone** of the owner or a security agency, or in the opposite direction to contact the vehicle or change the unit settings.

The car alarm is constantly armed and the legitimacy of entrance to the vehicle is checked by asking for the **presence of an access card**. If an access card is not discovered within range of the vehicle, the alarm is triggered via **SMS or a telephone call**. The range of the access card is approximately 5 metres and successful detection of the card in within 5 seconds.

To the car alarm is connected a tilt sensor to detect attempted towing or jacking of the vehicle, and a **spatial microwave sensor** for guarding the interior. There is also a bonnet sensor to protect the engine compartment and a shock sensor for an alarm in the event of an accident. The car alarm can activate the internal shake and set off an alarm if the GPS position of the vehicle changes.

The car alarm is equipped with a **panic alarm** for manually calling and temporarily blocking the alarm and with an external battery back up. It can also be equipped with an immobiliser. Through the alarm system, you can also control selected features in the car, such as the heater.

## DECLARATION OF CONFORMITY

LogisCarE **GUARD** complies with the essential requirements of § 3 and the other relevant provisions of the FTEG (Article 3 of the R&TTE Directive):

EN 300 220, 301 419-1, EN 301 511

EN 301 489-7, EN 50130-4

EN 60950-1

E8 APPROVAL nr.: 10 R – 04 6807

## ACCESSORIES INCLUDED

- 2x identification card
- External GPS antenna
- Electrical installation accessories
- Tilt sensor
- Spatial microwave sensor
- Panic alarm
- External battery back up

## TECHNICAL DETAILS



## GSM

- Calling, SMS, GSM Data, GPRS
- Free alarm ringing | Launch action by ringing (position inquiry, immobilization...)
- SMS alarm, info, command, question, answer, setup, change configuration - up to 4 parameters in one SMS
- Class 10 | Support static and dynamic IP and VPN | UDP protocol | Transmission security
- Asymmetric encryption of 128 bits | firmware upgrade and configuration

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The Company registered with the Commercial Register administrated by the Municipal Court in Prague, Section C, Insert 222851

## GPS

- 50 channels
- Module  $\mu$ -blox 6, high-sensitivity
- SMB antenna connector - f

## INTERFACE

- 6x digital input
- 4x digital output
- 1x internal piezo - acoustic signalling
- Input up to 30V DC
- Output current up to 0.2 A
- Receiver access cards - frequency 2.4 GHz, encrypted two-way transmission
- Overload sensor G - 3-axis acceleration sensor, recording of incidents, motion indication, rating driver quality
- Power supply - 12 to 24 V DC, idle consumption <15 mA at 12 V, maximum power consumption 400 mA at 12 V
- Micro USB - PC connection (configuration, upgrade)
- Events memory - 512kB Flash i.e. 8000 positions (20,000 positions when compressed)
- Time synchronization - date and time synchronized with GPS

## FEAUTURES

- Dimensions - 150 x 70 x 20 mm
- Weight - 120 g
- Temperature range - 30 ° C to 85 ° C
- Protection class - IP 20
- Internal GSM antenna
- External GPS antenna
- Real Time tracking
- Smart data acquisition (based on time, distance, angle, ignition and events)
- Sending acquired data via GPRS (TCP/IP and UDP/IP protocols)
- Smart algorithm of GPRS connections (GPRS traffic saving)
- Operating in roaming networks
- Events on I/O detection and sending via GPRS or SMS
- Scheduled 24 coordinates SMS sending
- Deep Sleep mode (less power consumption)
- FOTA (firmware updating via GPRS)
- Motion sensor
- Easy to mount case

## OPTIONAL ACCESSORIES

- Incline sensor
- Immobilization relay